# Site Plans

Issued for Local Approvals

Date Issued February 11, 2022

Latest Issue February 11, 2022

# Proposed Large-Scale Ground-Mounted Solar Photovoltaic Installation

0 Locust Street & 0 George D. Williams Lot Freetown, MA (Map 206, Parcels 49.01 & 43)

# Owner (Lot 49.01-0)

Capital Funding Services LLC 3129 County Street Somerset, MA 02726

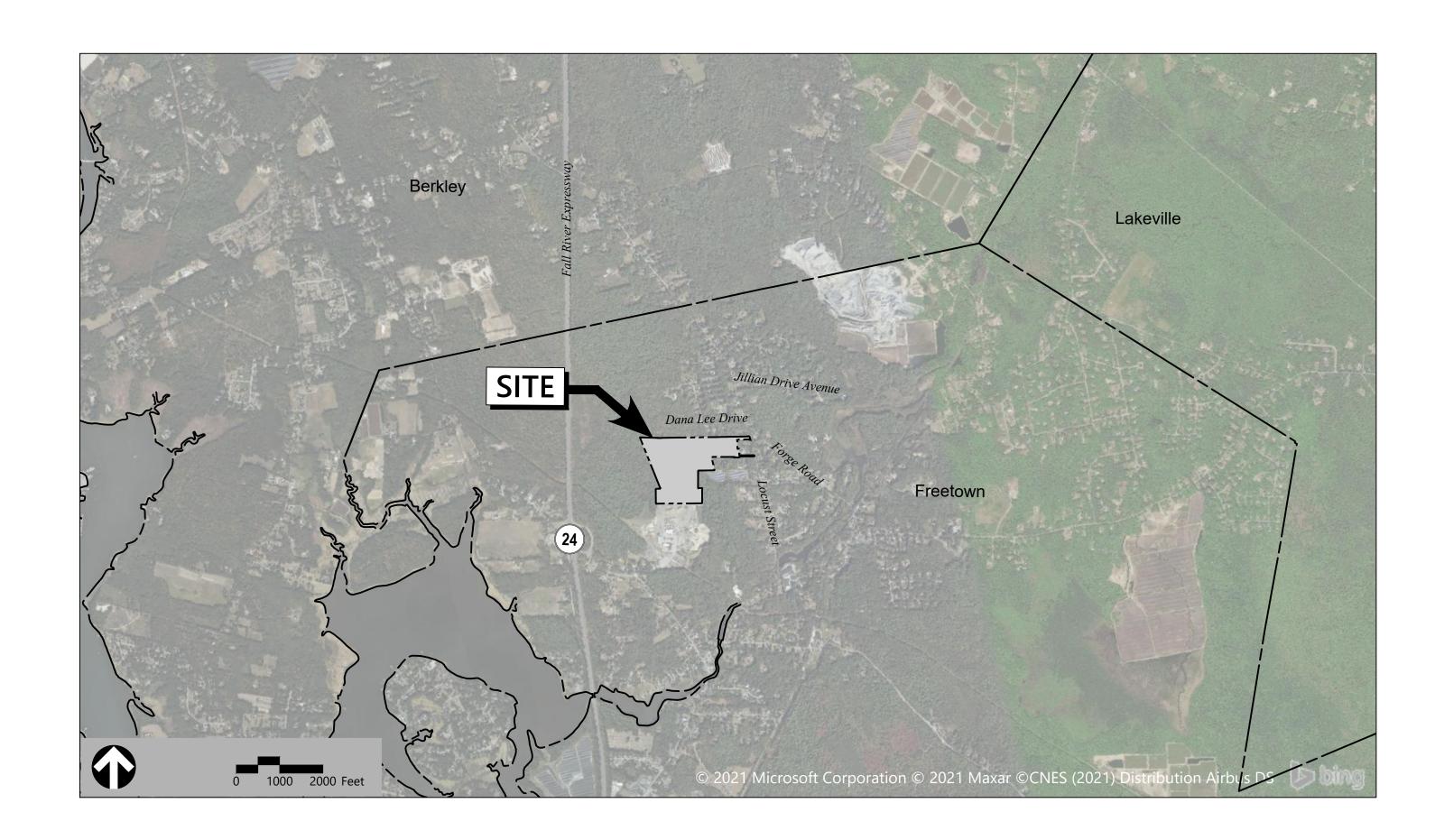
# **Owner (Lot 43-0)**

Edward F. Lowe, Trustee of Lowe Irrevocable Trust 44 Elm Tree Drive Assonet, MA 02702

# **Applicant**

Freetown East PV I, LLC 330 Congress Street 6th Floor Boston, MA 02210

**Assessor's Map 206: Parcels 49.01 & 43** 



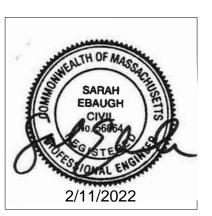
Sheet	Index	
No.	Drawing Title	Latest Issue
C1.01	Legend and General Notes	February 11, 2022
C2.00	Overall Site Plan	February 11, 2022
C3.01-04	Layout, Grading and Erosion Control Plan	February 11, 2022
C4.01	Wetland Replication Plan	February 11, 2022
C5.01-02	Site Details	February 11, 2022

	Ref	erence Drawings	
<u>-</u>	No.	Drawing Title	Latest Issue
2	Sv-1 - 9	Sv-7 Existing Conditions Plan of Land	May 17, 2021



### Designer/Developer/Electrical Engineer

Freetown East PV I, LLC 330 Congress Street 6th Floor Boston, MA 02210 617.377.4301



----4----

— — 20 — —

<del>------</del> 4 <del>------</del>

(C10)

**ELECTRIC MANHOLE** 

MATCHLINE

MINOR CONTOUR MAJOR CONTOUR **ELECTRIC METER** LIGHT POLE PARKING COUNT COMPACT PARKING STALLS TELEPHONE MANHOLE DOUBLE YELLOW LINE TRANSFORMER PAD **UTILITY POLE** 

**CROSSWALI GUY POLE** ACCESSIBLE CURB RAMP **GUY WIRE & ANCHOR** ACCESSIBLE PARKING HAND HOLE VAN-ACCESSIBLE PARKING

**Abbreviations** General ABAN ABANDON ACR ACCESSIBLE CURB RAMP **ADJUST** APPROXIMATE **BITUMINOUS BOTTOM OF SLOPE** BROKEN WHITE LANE LINE CONC CONCRETE DOUBLE YELLOW CENTER LINE ELEVATION **ELEVATION FOUNDATION** FIRST FLOOR ELEVATION GRAN GRANITE GTD **GRADE TO DRAIN** LANDSCAPE AREA LIMIT OF DISTURBANCE MAXIMUM MINIMUM NOT IN CONTRACT NOT TO SCALE PERFORATED PROPOSED REMOVE RETAIN REMOVE AND DISPOSE REMOVE AND RESET SOLID WHITE EDGE LINE SOLID WHITE LANE LINE TOP OF SLOPE CB CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLF CAST IRON PIPE CONDUIT **DUCTILE IRON PIPE** FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER **GUTTER INLET** GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT **INVERT ELEVATION** 

INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE

PAVED WATER WAY

RIM ELEVATION

RIM ELEVATION

SEWER MANHOLI

UNDERGROUND

UTILITY POLE

POLYVINYLCHLORIDE PIPE

REINFORCED CONCRETE PIPE

TAPPING SLEEVE, VALVE AND BOX

Notes

### General

- 1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 3. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
- 4. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6 INCHES LOAM AND SEED.
- 5. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.
- 6. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- 7. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT
- 8. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 9. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S
- 10. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 11. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- 12. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 13. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT
- 14. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM AND EPA JURISDICTION. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR IS TO FILE A CGP NOTICE OF INTENT WITH THE EPA AND PREPARE A STORMWATER POLITITION PREVENTION PLAN IN ACCORDANCE WITH THE NPDES REGULATIONS. CONTRACTOR SHALL CONFIRM THE OWNER HAS ALSO FILED A NOTICE OF INTENT WITH THE EPA.

### Utilities

- 1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- 2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- 3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
- 4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:
  - A. PAVEMENTS AND CONCRETE SURFACES: FLUSH
  - B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
  - C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
- 5. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
- 6. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY
- 7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN: A. STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HDPE)
  - B. PIPE INSTALLATION AND MATERIALS SHALL COMPLY WITH THE STATE PLUMBING CODE WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH LOCAL PLUMBING INSPECTOR PRIOR TO BEGINNING WORK.
- 8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.
- 9. CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.
- 10. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

### **Layout and Materials**

- 1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- 2. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
- . PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING
- CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LAND SURVEYOR. 4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO

DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.

### Site Clearing

- 1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.
- 2. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES
- 3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL. STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- 4 THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE
- UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

### **Erosion Control**

- 1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
- CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED
- CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- 4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED to prevent erosion. Refer to project swppp for specific timeframes.
- 5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER CONTRACTOR SHALL REMOVE AND DISPOSE OF SEDIMENT CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

### **Existing Conditions Information**

- 1. BASE PLAN: "EXISTING CONDITIONS PLAN OF LAND" DATED MAY 17 2021, PREPARED BY VHB.
- 2. TOPOGRAPHY: ELEVATIONS ARE BASED ON NAVD 1988.

### Document Use

- 1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED. WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
- 2. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT

### Planting Notes

- 1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
- 3. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.
- 4. A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY
- OWNER'S REPRESENTATIVE. 5. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR
- FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.

SPECIFICATION, OR APPROVED BY THE OWNER'S REPRESENTATIVE.

- 8. ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS
- 9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- 10. AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.
- 11. ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND SEEDED OR MULCHED AS DIRECTED BY OWNER'S REPRESENTATIVE.
- 12. THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

### Plant Maintenance Notes

THAT TIME.

- 1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
- 2. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
- 3. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
- 4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- 5. CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT



PO Box 9151 Watertown, MA 02471 617.924.1770

# Proposed Large-Scale **Ground-Mounted Solar** Photovoltaic Installation 0 Locust Street & 0 George D. Williams Lot

Freetown, MA

Designed by SKE/LMT	Checked by JRG
Issued for	Date
Local Approvals	2/11/2022

Legend and **General Notes** 



Local Approvals

2/11/2022

Project Number 15225.02



Watertown, MA 02471

617.924.1770





# **Ground-Mounted Solar** Photovoltaic Installation

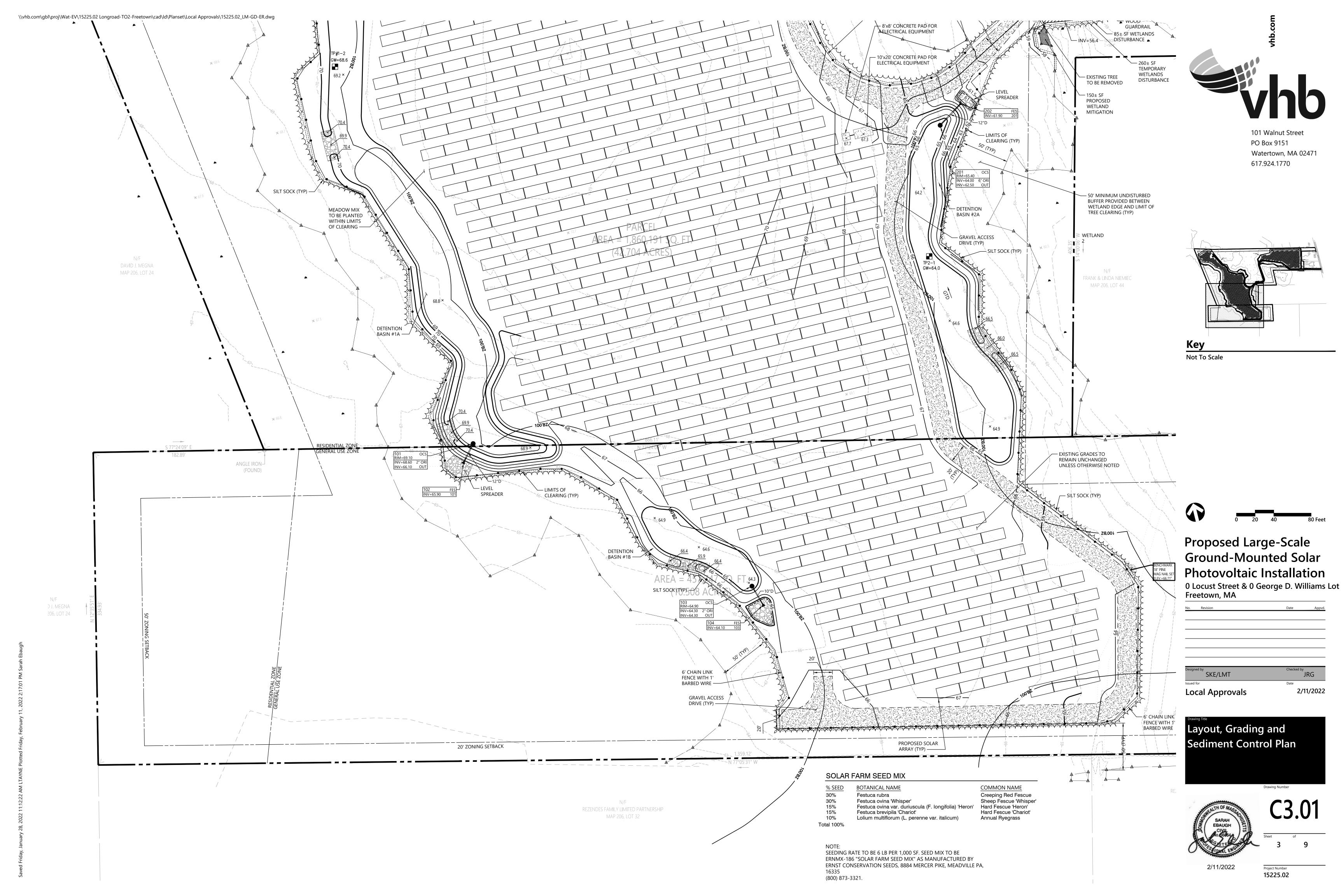
0 Locust Street & 0 George D. Williams Lot Freetown, MA

	2/11/2022
Issued for	Date
Designed by SKE/LMT	Checked by JRG

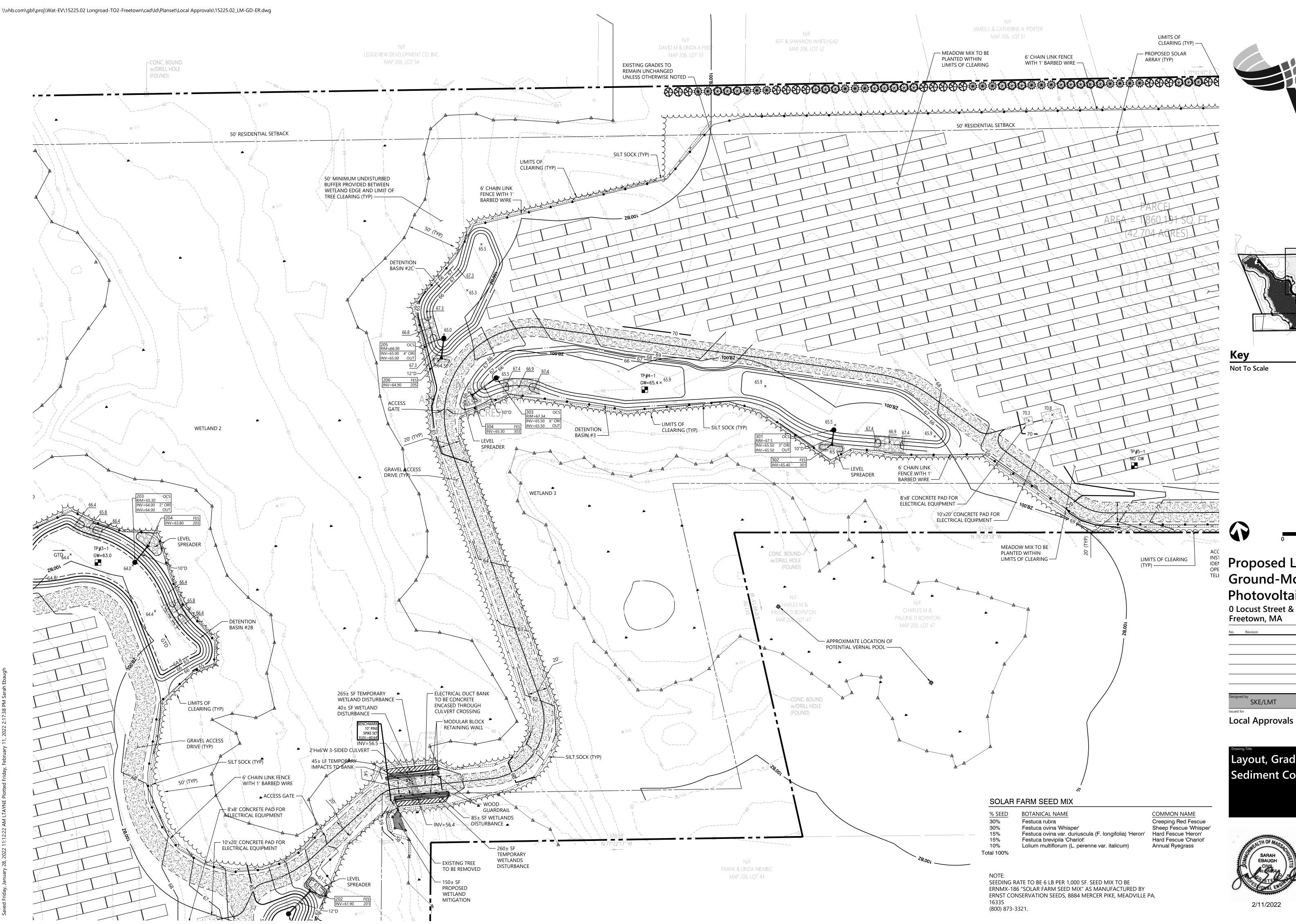




15225.02









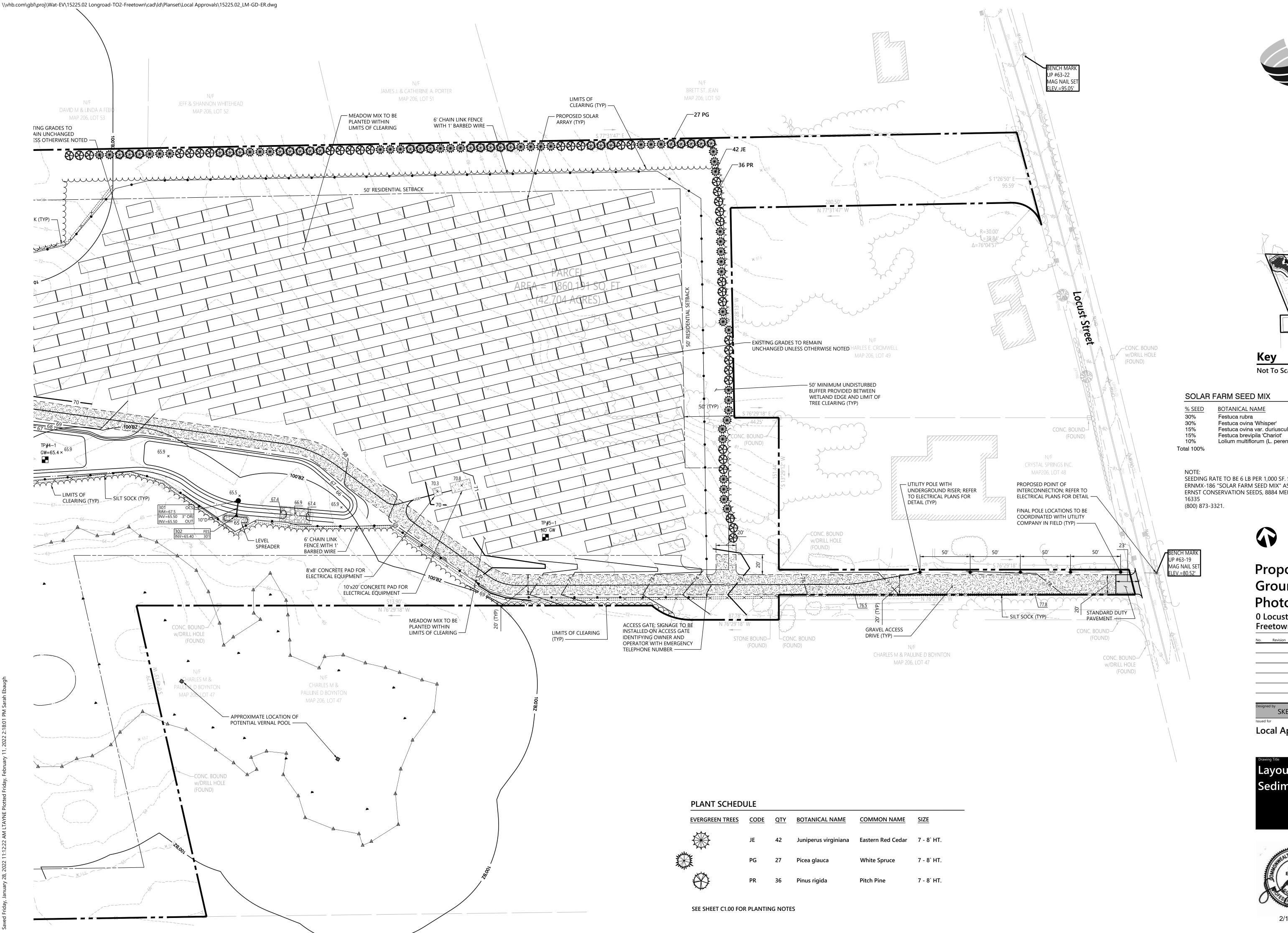
Proposed Large-Scale **Ground-Mounted Solar** 

**Photovoltaic Installation** 0 Locust Street & 0 George D. Williams Lot Freetown, MA

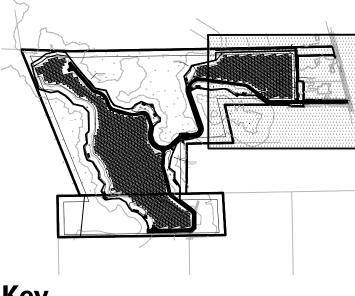
2/11/2022

Layout, Grading and **Sediment Control Plan** 

15225.02







Creeping Red Fescue Sheep Fescue 'Whisper' Hard Fescue 'Heron'

Hard Fescue 'Chariot'

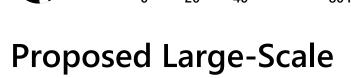
Annual Ryegrass

Not To Scale

% SEED	BOTANICAL NAME
30%	Festuca rubra
30%	Festuca ovina 'Whisper'
15%	Festuca ovina var. duriuscula (F. longifolia) 'He
15%	Festuca brevipila 'Chariot'
10%	Lolium multiflorum (L. perenne var. italicum)
Total 100%	

SEEDING RATE TO BE 6 LB PER 1,000 SF. SEED MIX TO BE

ERNST CONSERVATION SEEDS, 8884 MERCER PIKE, MEADVILLE PA, 16335



# **Ground-Mounted Solar Photovoltaic Installation**

0 Locust Street & 0 George D. Williams Lot Freetown, MA

SKE/LMT	Checked by JRG

**Local Approvals** 

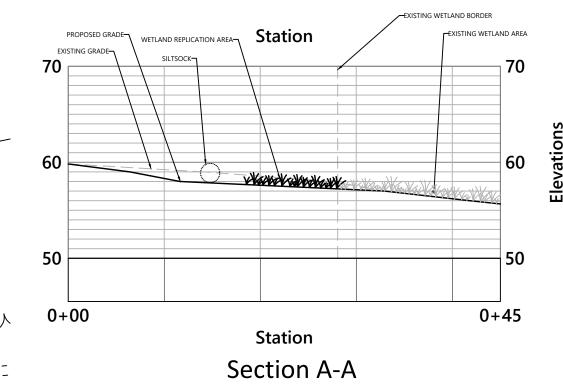
Layout, Grading and **Sediment Control Plan** 



2/11/2022

2/11/2022

Project Number 15225.02

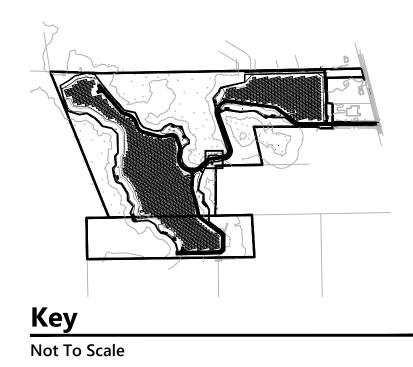


### Replacement Wetland Plan Notes

- 1. Construction of the wetland replacement area will include grading, soils placement, and planting, and all work shall be performed under the supervision of an experienced wetland scientist. All plantings shall be performed in spring (April 15 to June 15) or fall (September 1 to October 31).
- 2. An erosion control barrier of entrenched silt fencing or staked mulch/compost tubes shall be installed along the entire perimeter of the replacement area except at the upgradient edge to allow access to machinery.
- 3. All areas to be planted as part of the replacement area shall be cleared and grubbed (as needed) and shall be excavated to a depth of 12 inches below the final design elevations. Minor modifications to the grading plan may be made in the field by the supervising wetland scientist in response to hydrologic conditions. Native wetland soils removed during grading may be reused onsite; any such soils shall be stockpiled and surrounded by a perimeter of erosion controls until ready for use. The supervising wetland scientist will inspect the final sub-grade of the replacement area to ensure that the proper hydrology has been established.
- 4. The replacement area will then be backfilled with native wetland soils and/or prepared topsoil. Prepared soils shall consist of a 1:1 mixture (or equal volumes) of organic and mineral materials (in the silt loam, loam, or loamy sand range) to increase the organic carbon content to between 4 and 12 percent by weight. Clean leaf or commercially available compost is the preferred amendment to achieve this standard, although other materials may be used if approved by the supervising wetland scientist. Areas to be planted as BVW should be graded in a slightly irregular fashion to allow for small hummocks and hollows approximately 6 inches above and below grade to create a pit and mound topography.
- 5. Fallen logs, branches, and other natural materials shall be distributed in the replacement area to provide wildlife habitat. These materials shall cover 2 to 4 percent of the replacement area's surface and shall not include any known invasive species. Woody material should vary in size and degree of decomposition.
- 6. Once wetland soils and any natural materials have been placed, any equipment or vehicles exerting a ground pressure of 3 psi or greater shall no longer be allowed in the replacement area to avoid compacting the wetland soils.
- 7. Shrub plantings will be installed once the above tasks have been completed. All planting work shall be performed by hand using hand tools only. The species, size, and quantity of plantings shall follow the planting schedule. Only plant materials native to the region shall be used. In the event that plant substitutions are necessary, the supervising wetland scientist or another qualified wetland scientist or botanist shall be consulted. All woody plant stock shall either be bare-root or container-grown. Plantings shall be installed in accordance with the design specified on the plan, although the supervising wetland scientist may direct the project contractor to relocate plantings based on field conditions. Shrubs should planted in clusters of 3-4 plants to simulate a natural distribution. Spacing between individual plants should be as specified in the planting schedule, with spacing in between clusters of 10 to 12 feet.
- 8. Following shrub plantings, the area will be seeded with a native wetland seed mix as specified in the planting schedule or a similar mix. The seed mix shall be applied at a rate and in a manner according to the manufacturer's specifications.
- 9. Following completion of planting and seeding, a line of erosion controls will be installed along the upgradient edge of the replacement area. All erosion controls around the replacement area shall remain in place until vegetation is well-established and soils have stabilized, at which point the barriers shall be removed and disposed of.
- 10. The replacement area will be monitored for two full growing seasons after planting. The area will be inspected once per year to assess whether the area has achieved 75 percent cover by indigenous wetland species. Consideration will be given to other native wetland plant species that become established in the replacement.
- 11. Invasive species within the replacement area shall be removed by hand for two growing seasons after planting. If necessary any areas where invasive species have been removed will be reseeded with a suitable wetland seed mix.



101 Walnut Street PO Box 9151 Watertown, MA 02471 617.924.1770

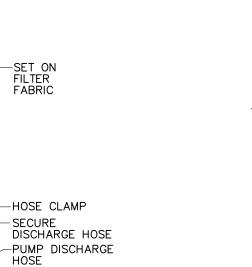


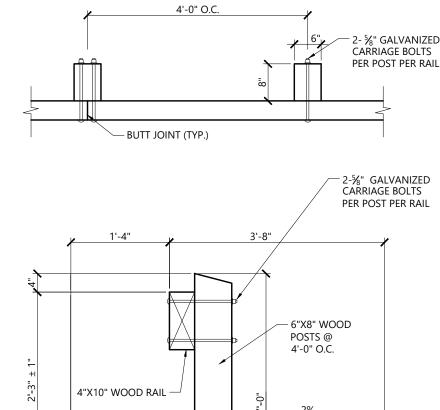
### Wetland Planting Schedule

Common Name	Scientific Name	Indicator Status	Plant Type	Number of Plantings	Suggested Size	Suggested Spacing
Sweet Pepperbush	Clethra alnifolia	FAC	Shrub	3	2-3 feet	6 feet
Highbush Blueberry	Vaccinium corymbosum	FACW	Shrub	2	2-3 feet	8 feet
Total Plantings				5		
Wetland Seed mix	See Note 1 – seed at rate 2,500 sf	e of 1lb. per	Herbaceous	N/A	N/A	N/A

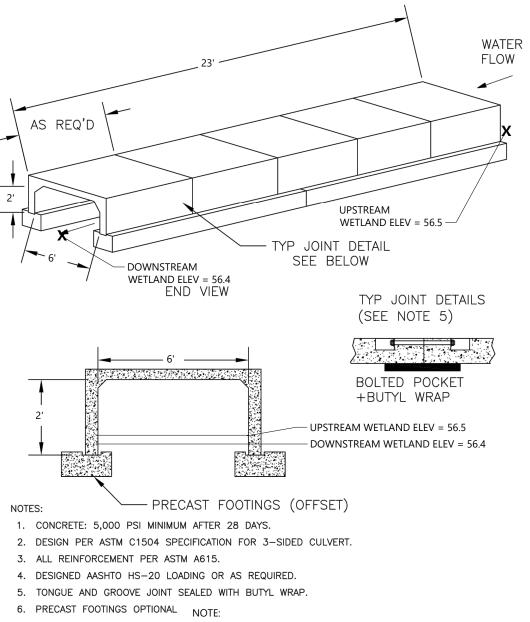
### Source: VHB, 2020.

1 Wetland seed mix: "New England Wetmix" from New England Wetland Plants, Inc. or similar. Typical species: Carex vulpinoidea (fox sedge), Carex lurida (lurid sedge), Carex scoparia (blunt broom sedge), Onoclea sensibilis (sensitive fern), Verbena hastata (blue vervain), Carex lupulina (hop sedge), Scirpus atrovirens (green bulrush), Bidens cernua (nodding bur marigold), Carex comosa (bristly sedge), Carex crinita (fringed sedge), Glyceria grandis (American mannagrass), Scirpus cyperinus (wool grass), Juncus effusus (soft rush), Eupatorium maculatum (spotted joe-pye-weed), Eupatorium perfoliatum (boneset), Alisma subcordatum (mud plantain), Symphyotrichum novae-angliae (New England aster), Glyceria canadensis (rattlesnake grass), Symphotrichum puniceum (purple stem American aster), Scirpus validus (soft stem bulrush), Iris versicolor (blueflag), Asclepias incarnata (swamp milkweed), Mimulus ringens (monkey-flower).





– CURB



DETAIL PROVIDED FOR REFERENCE ONLY. SHEA CONCRETE TO PROVIDE CUSTOM DETAIL AND SPECIFICATIONS FOR CULVERT 1/16 3-Sided Box Culvert **Wood Guardrail** 





**Photovoltaic Installation** 0 Locust Street & 0 George D. Williams Lot

Freetown, MA

Designed by	Checked by
SKE/LMT	JRG
Issued for	Date
Local Approvals	2/11/20





2/11/2022

15225.02

**Shrub Planting Detail** N.T.S. Source: VHB

- WETLAND SOIL CONTINUOUS IN BED

UNDISTURBED SUBGRADE —/

**Dewatering Filter Bag** LD\_691 N.T.S. Source: VHB

15' (MIN)

FILTER BAG

NOTE: LIMIT ONE DISCHARGE HOSE PER BAG

10' (MIN.)

Note:

BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMENDATIONS.

**Plan View** 

**Cross-Section** 

REV LD\_691

-HOSE CLAMP

-NON-WOVEN TEXTILE

-HOSE CLAMP

-FILTER FABRIC

-PUMP DISCHARGE

N.T.S. Source: VHB

FINISHED SURFACE —

LD\_450 N.T.S.

Source: Shea Concrete

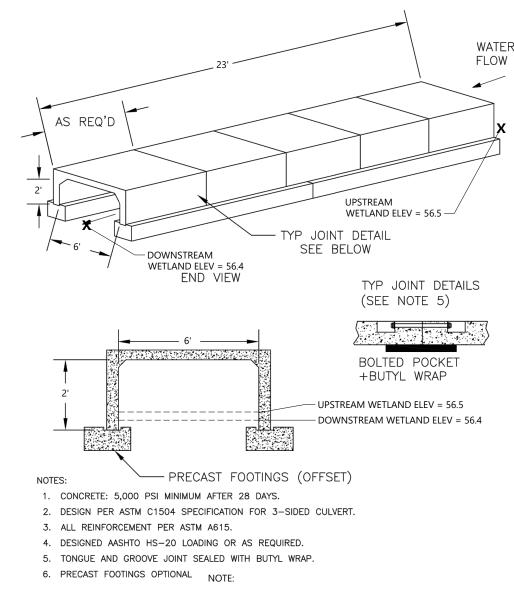
STANDARD DUTY FLEXIBLE PAVEMENT

NOTES

PAVEMENT SECTIONS ARE SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

Bituminous Concrete Pavement Sections 1/16

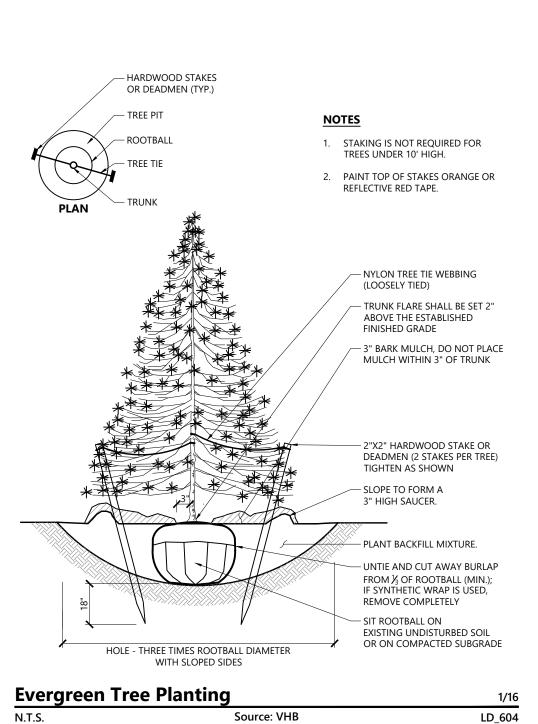
N.T.S. Source: VHB REV LD\_430

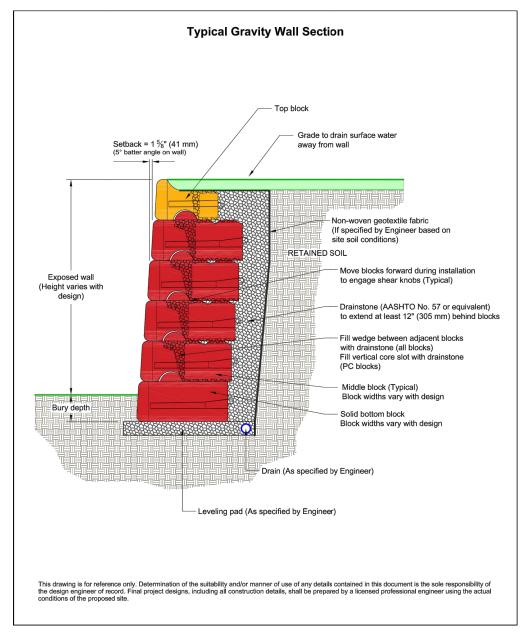


DETAIL PROVIDED FOR REFERENCE ONLY. SHEA CONCRETE TO PROVIDE CUSTOM DETAIL AND SPECIFICATIONS FOR CULVERT

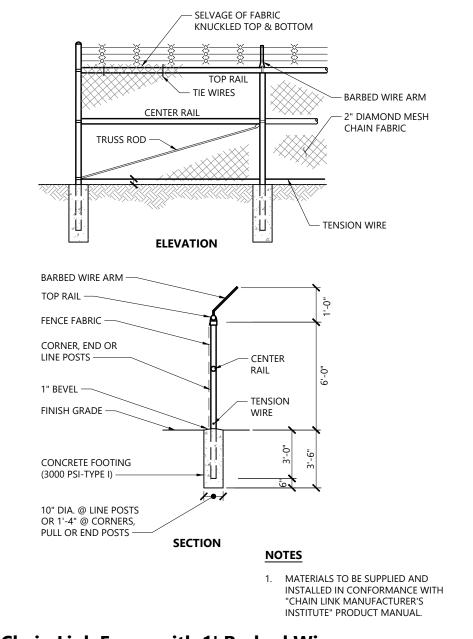
3-Sided Box Culvert

N.T.S. Source: Shea Concrete

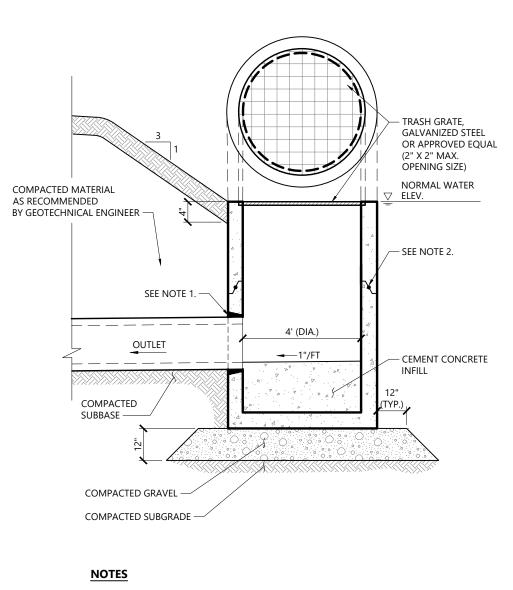








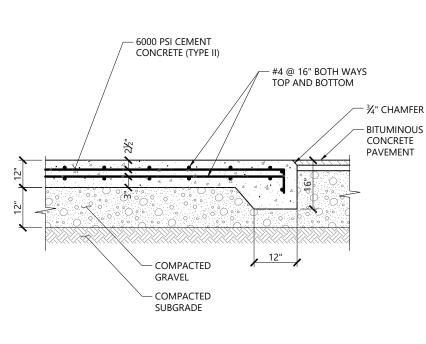






1. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE

2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.



NOTES

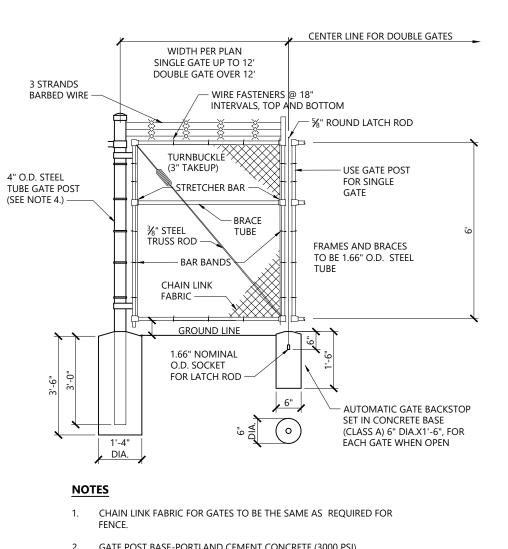
1. SIZE OF COMPACTOR PAD TO BE AS INDICATED ON PLANS.

2. CONSTRUCTION JOINTS SHALL BE SPACED NO MORE THAN 30 FEET ON CENTER AND SHALL BE EQUALLY SPACED OVER THE LENGTH AND WIDTH OF THE PAD.

3. SHOWN FOR REFERENCE; FINAL PAD DESIGN TO BE PROVIDED PRIOR

Concrete Pad1/16N.T.S.Source: VHBLD\_712A

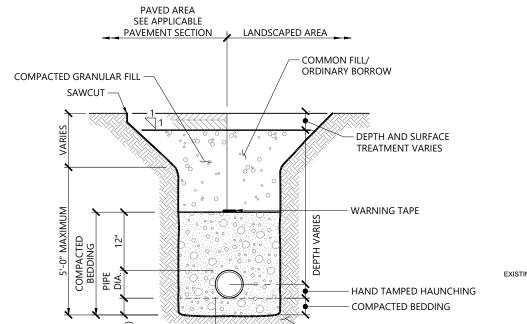
TO CONSTRUCTION



GATE POST BASE-PORTLAND CEMENT CONCRETE (3000 PSI).
 FENCE FABRIC, POSTS, FRAMEWORKS, AND HARDWARE SHALL BE

4. GATE POSTS TO BE USED ON EACH SIDE OF SINGLE AND DOUBLE GATE

<b>Chain Link Fence Gate</b>			1/16
N.T.S.	Source: VHB	REV LD	_482



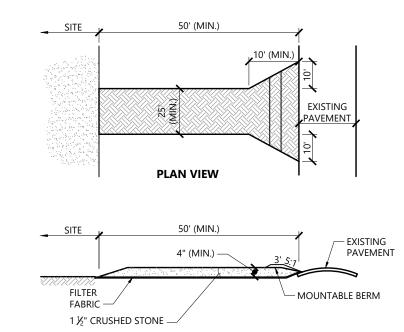
SUBGRADE

NOTES

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.

2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

Utility Trench1/16N.T.S.Source: VHBLD\_300



### NOTES

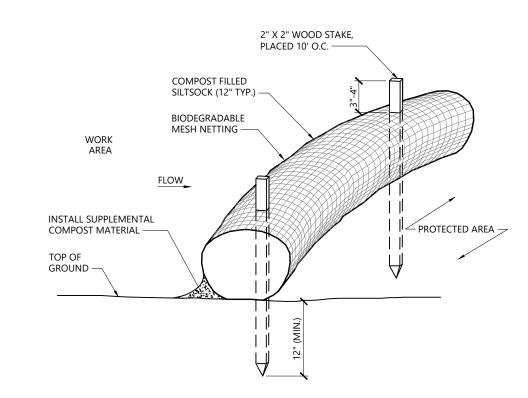
1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS

**CROSS-SECTION** 

2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

 STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.





### NOTES

1. SILTSOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.

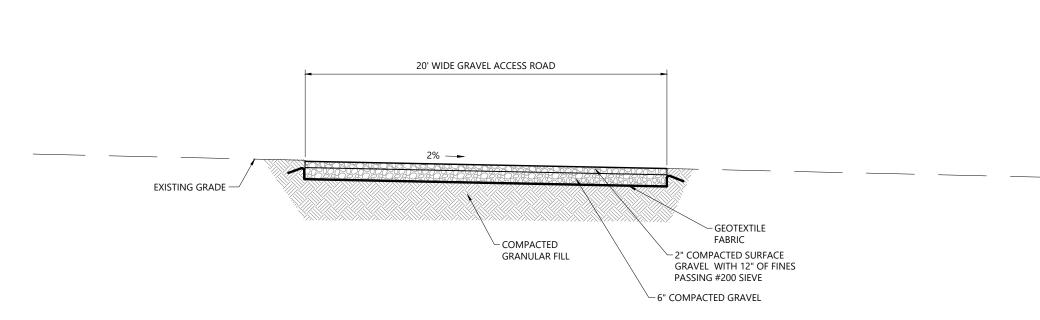
COLLECTED AND DISPOSED OF OFFSITE.

2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.

3. SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.

COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE

Siltsock - Sediment Control Barrier1/16N.T.S.Source: VHBLD\_658

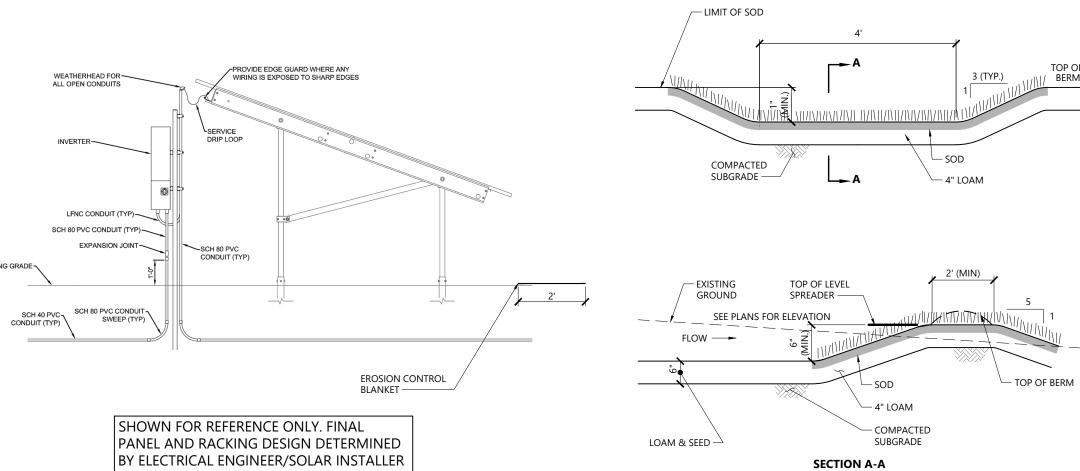


### <u>NOTES</u>

 GRAVEL ACCESS ROAD SHALL HAVE A SURFACE BEARING CAPACITY OF 20,000 LBS (MIN).
 STONE MATTRESS TO BE INSTALLED AS NEEDED TO PROVIDE FOR ADEQUATE DRAINAGE OF SURFACE RUNOFF AND PREVENT

### **Gravel Access Road - Typical Section**

S. So



Inverter and Array Detail (Side)Level Spreader Detail1/16N.T.S.Source: Ameresco Inc.N.T.S.Source: VHBREVLD\_172

# Proposed Large-Scale Ground-Mounted Solar Photovoltaic Installation

101 Walnut Street

Watertown, MA 02471

PO Box 9151

617.924.1770

O Locust Street & 0 George D. Williams Lot Freetown, MA

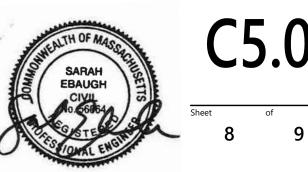
No. Revision Date Appvd.

Designed by Checked by JRG

Issued for Date

Local Approvals 2/11/2022



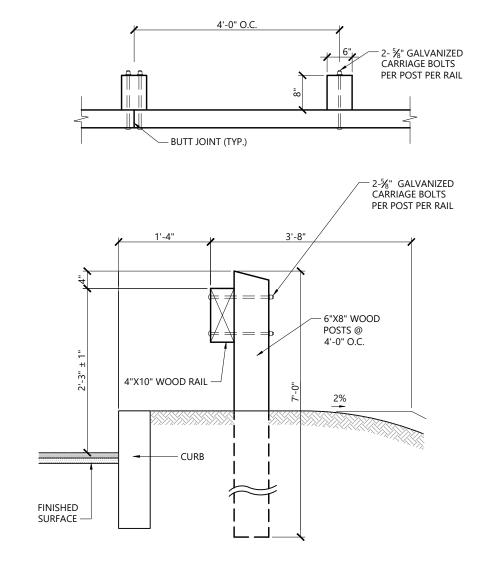


2/11/2022

Project Number 15225.02

\\vhb.com\gbl\proj\Wat-EV\15225.02 Longroad-TO2-Freetown\cad\ld\Planset\Local Approvals\15225.02\_DT.dwg

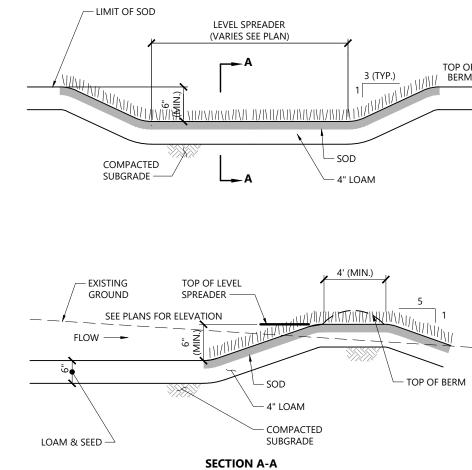
**Wood Guardrail** 



Source: VHB

LD\_450

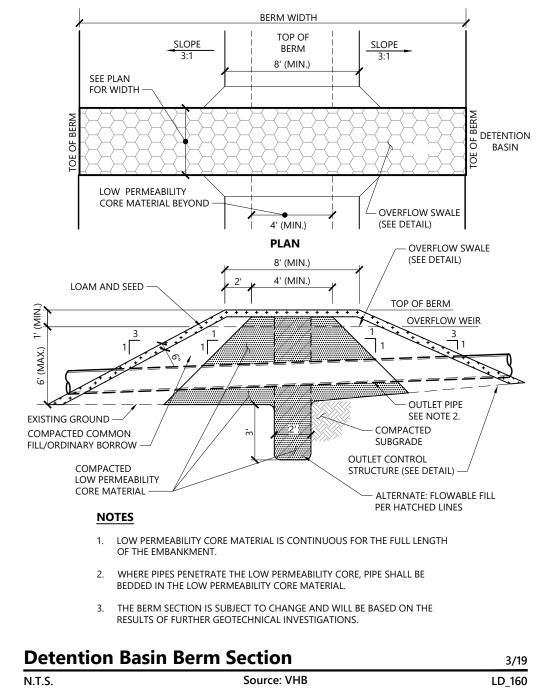
N.T.S.



Source: VHB

LD\_172

LEVEL SPREADER (VARIES SEE PLAN)  TOP OF BERM  COMPACTED SUBGRADE  A 1 LOAM	1' (MIN.)
SEE PLANS FOR ELEVATION  FLOW  SOD  TOP OF LEVEL  SEE PLANS FOR ELEVATION  TOP OF BERM  COMPACTED SUBGRADE	EXIST COM FILL/O
SECTION A-A	
Level Spreader Detail 1/16	De





# Proposed Large-Scale **Ground-Mounted Solar** Photovoltaic Installation

0 Locust Street & 0 George D. Williams Lot Freetown, MA

Local Approvals	2/11/202
Issued for	Date
SKE/LMT	JRG
Designed by	Checked by

Local Approvals





Project Number 15225.02



### Legend

DRAIN MANHOLE ■ CATCH BASIN S SEWER MANHOLE © ELECTRIC MANHOLE (T) TELEPHONE MANHOLE MANHOLE

HH□ HAND HOLE WATER GATE

FIRE HYDRANT GAS GATE 

→ STREET SIGN □ LIGHT POLE

-O- UTILITY POLE → GUY POLE GUY WIRE

MONITORING WELL FLOOD LIGHT WELL WELL

<u>₩</u> MARSH F.F.E.=45.27'

FINISHED FLOOR ELEVATION CNO COULD NOT OPEN NPV NO PIPES VISIBLE DYL DOUBLE YELLOW LINE DWL DASHED WHITE LINE

SYL SINGLE YELLOW LINE lsa landscaped area EDGE OF PAVEMENT CONCRETE CURB VERTICAL GRANITE CURB

SGE SLOPED GRANITE EDGE BITUMINOUS BERM BITUMINOUS CURB — T GUARD RAIL 

----- DRAINAGE LINE — — — — SEWER LINE ----- E ----- UNDERGROUND ELECTRIC 

— G — GAS LINE OOOOOO STONE WALL TREE LINE

— 100'BZ — 100-FT BUFFER ZONE ----- 100'RA ----- 100-FT RIVER FRONT AREA ———— 200'ra —— 200-FT RIVER FRONT AREA

LIMIT MEAN ANNUAL HIGH WATER

LIMIT OF BANK

WF1-100

WF1-100

WF1-100

# Proposed Large-Scale **Ground-Mounted Solar Photovoltaic Installation**

0 Locust Street & 0 George D. Williams Lot Freetown, Massachusetts

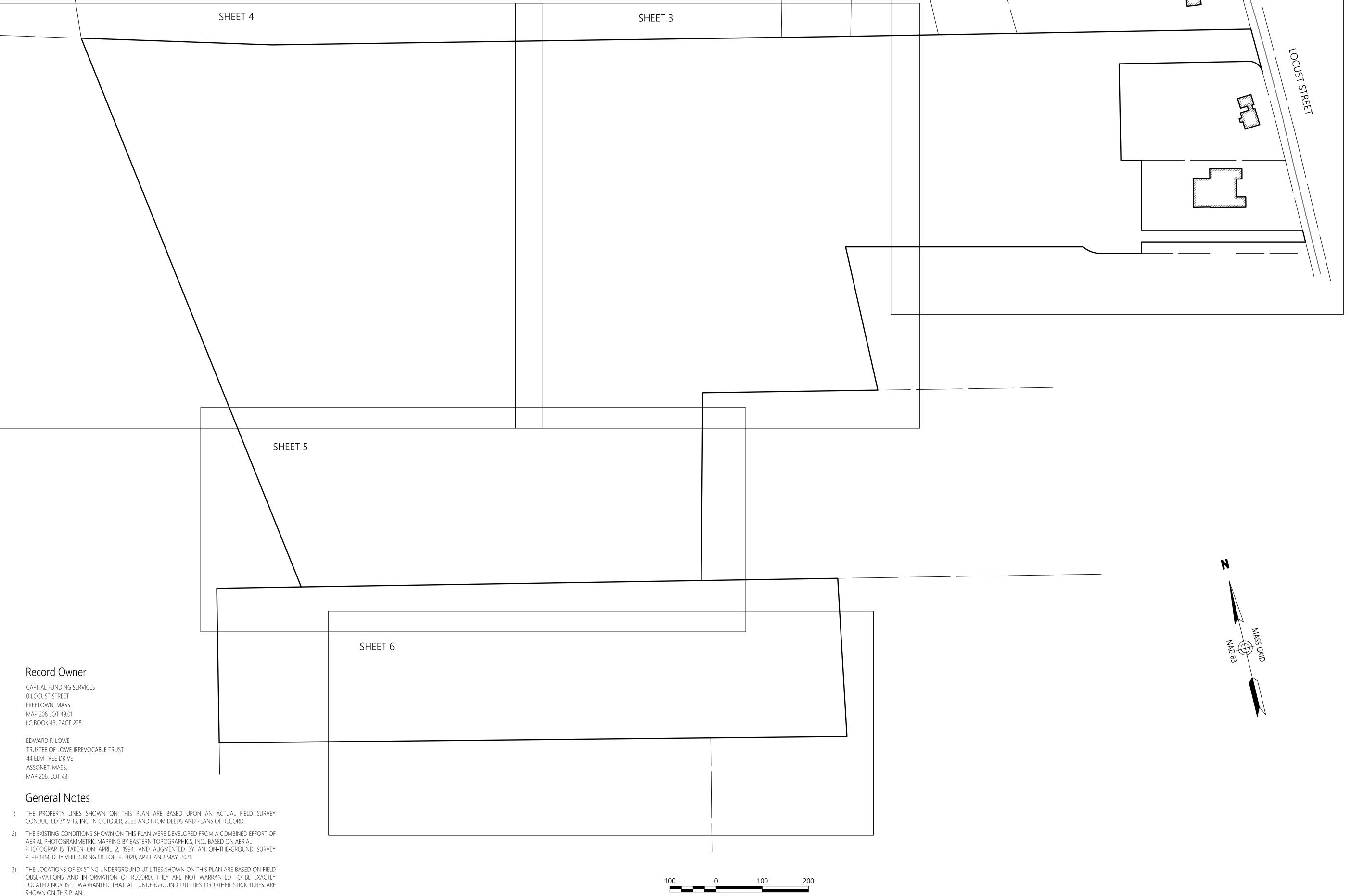
1. ADDITIONAL TOPO SOUTHERLY PROP. 5-2021

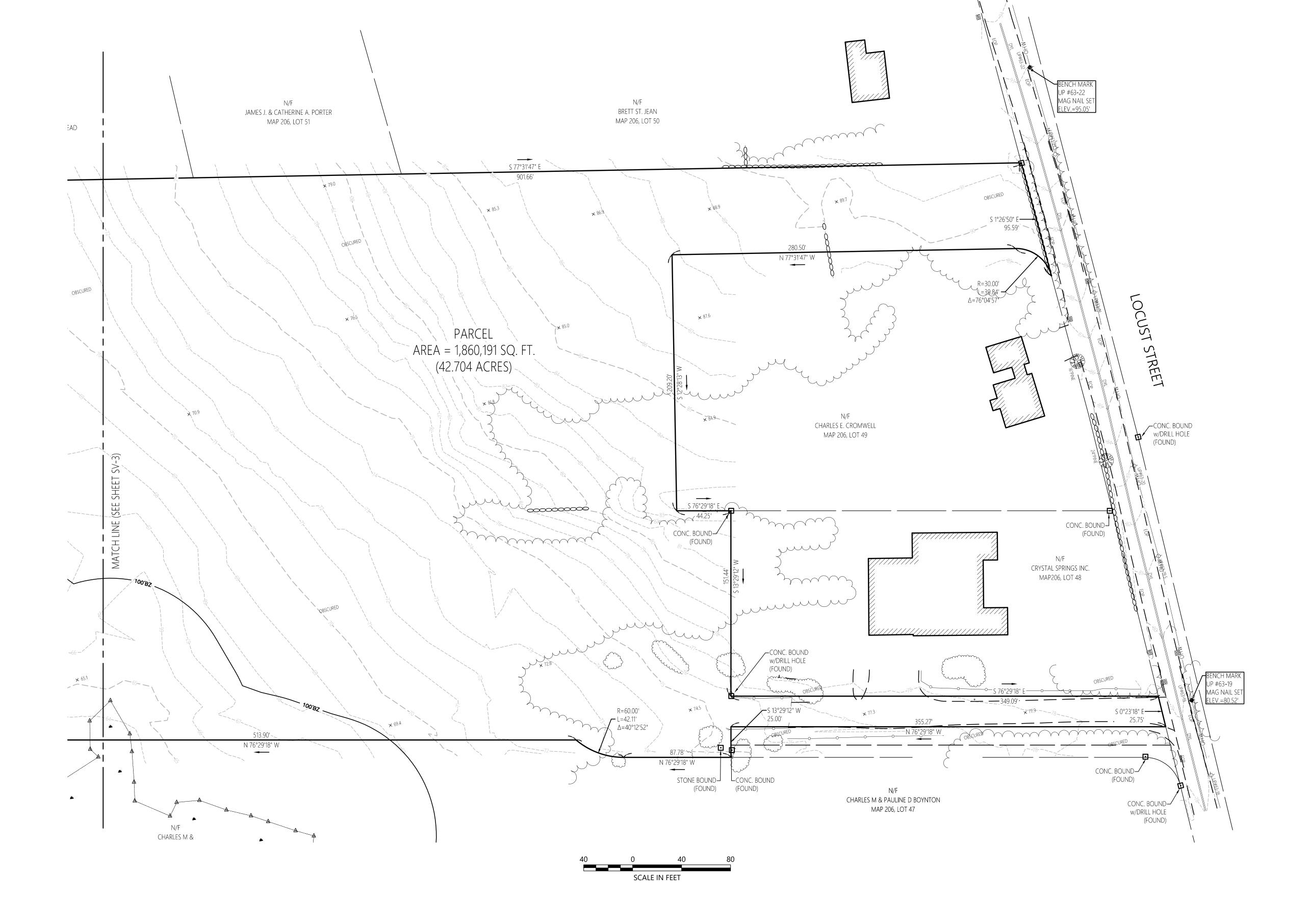
November 9, 2020





PLAN REFER TO NAVD OF 1988. 5) A PORTION OF THE WETLANDS SHOWN ON THIS PLAN WERE TAKEN FROM A PLAN ENTITLED "PROPERTY MAP FREETOWN, MASSACHUSETTS" PREPARED BY CARTOGRAPHIC ASSOCIATES, INC. DATED MAY 1, 1995 AND A PORTION OF THE WETLANDS WERE FLAGGED BY VHB ENVIRONMENTAL DEPARTMENT AND FIELD SURVEYED BY VHB IN MAY, 2021. 6) THE TREE SYMBOL OUTLINE SHOWN ON THIS PLAN DOES NOT REPRESENT THE ACTUAL TREE 7) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT AND MAY BE SUBJECT TO ADDITIONAL INFORMATION DISCLOSED IN SUCH.







### Legend

DRAIN MANHOLE

CATCH BASIN

SEWER MANHOLE

FLECTRIC MANHOLE

© ELECTRIC MANHOLE

① TELEPHONE MANHOLE

TELEPHONE N⊙ MANHOLEHH□ HAND HOLE

WATER GATEFIRE HYDRANT

○ GAS GATE◆ BOLLARD w/LIGHT

■ BOLLARD w/LIC■ STREET SIGN□ LIGHT POLE

-O- UTILITY POLE
O— GUY POLE
O— GUY WIRE

MONITORING WELL

FLOOD LIGHT

₩ WELL

★ MARSHF.F.E.=45.27'FINISHED FLOOR ELEVATION

CNO COULD NOT OPEN
NPV NO PIPES VISIBLE
DYL DOUBLE YELLOW LINE

DWL DASHED WHITE LINE
SYL SINGLE YELLOW LINE
LSA LANDSCAPED AREA
EDGE OF PAVEMENT

VGC VERTICAL GRANITE CURB

SGE SLOPED GRANITE EDGE

BB BITUMINOUS BERM

BC BITUMINOUS CURB

T T GUARD RAIL

CHAIN LINK FENCE

DRAINAGE LINE

SEWER LINE

OVERHEAD WIRE

UNDERGROUND ELECTRIC

T TELEPHONE LINE

G G G GAS LINE

WATER LINE
WATER LINE
STONE WALL
TREE LINE
100'BZ 100-FT BUFFER ZONE

— 100'BZ — 100-FT BUFFER ZONE
— 100'RA — 100-FT RIVER FRONT AREA
— 200'RA — 200-FT RIVER FRONT AREA

200'RA 200'RA 200-FT RIVER FRONT AREA

LIMIT MEAN ANNUAL HIGH WATER

LIMIT OF BANK

WEGETATED WETLAND BOUNDARY

# Proposed Large-Scale Ground-Mounted Solar Photovoltaic Installation

0 Locust Street & 0 George D. Williams Lot Freetown, Massachusetts

No. Revision Date Appvd

1. ADDITIONAL TOPO SOUTHERLY PROP. 5-2021

Designed by Checked by

Issued for Date

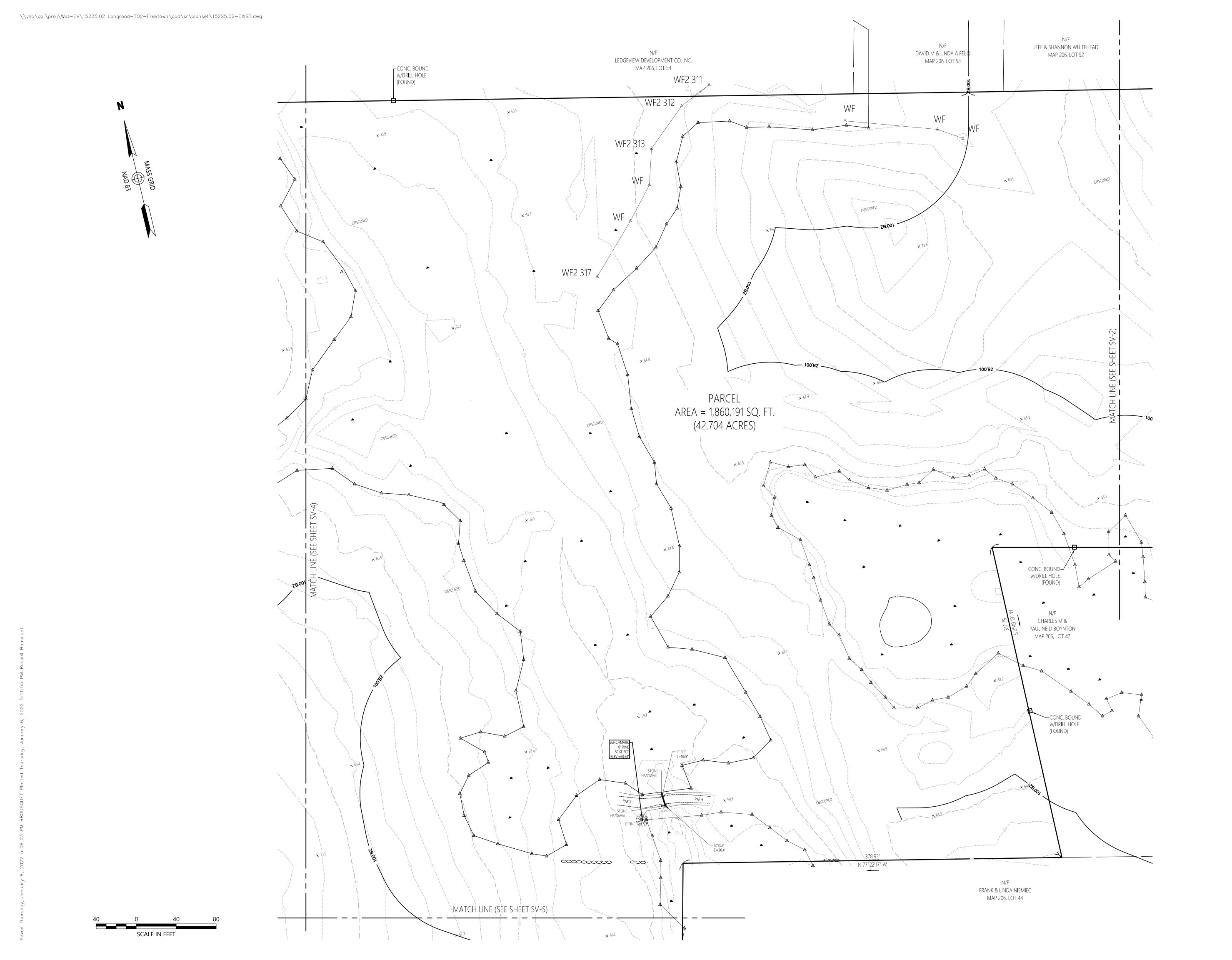
November 9, 2020





**5V-2**of 6

Project Number **14668.01** 





### Legend

D DRAIN MANHOLE ■ CATCH BASIN S SEWER MANHOLE © ELECTRIC MANHOLE TELEPHONE MANHOLE MANHOLE HH□ HAND HOLE ● WATER GATE FIRE HYDRANT GAS GATE ■ BOLLARD w/LIGHT

→ STREET SIGN → UTILITY POLE GUY POLE

GUY WIRE MONITORING WELL FLOOD LIGHT

WELL WELL <u>₩</u> MARSH

F.F.E.=45.27' FINISHED FLOOR ELEVATION CNO COULD NOT OPEN NPV NO PIPES VISIBLE DYL DOUBLE YELLOW LINE DWL DASHED WHITE LINE

SYL SINGLE YELLOW LINE LSA LANDSCAPED AREA EDGE OF PAVEMENT CONCRETE CURB VERTICAL GRANITE CURB SGE SLOPED GRANITE EDGE

BITUMINOUS BERM BITUMINOUS CURB TTTT GUARD RAIL — — — SEWER LINE -онw--- OVERHEAD WIRE ----- E ----- UNDERGROUND ELECTRIC

TELEPHONE LINE — G — GAS LINE STONE WALL
TREE LINE
100'BZ 100-FT BUFFER ZONE

----- 100'RA ----- 100-FT RIVER FRONT AREA 200'RA 200'RA 200-FT RIVER FRONT AREA

LIMIT MEAN ANNUAL HIGH WATER

LIMIT OF BANK

WEGETATED WETLAND BOUNDARY

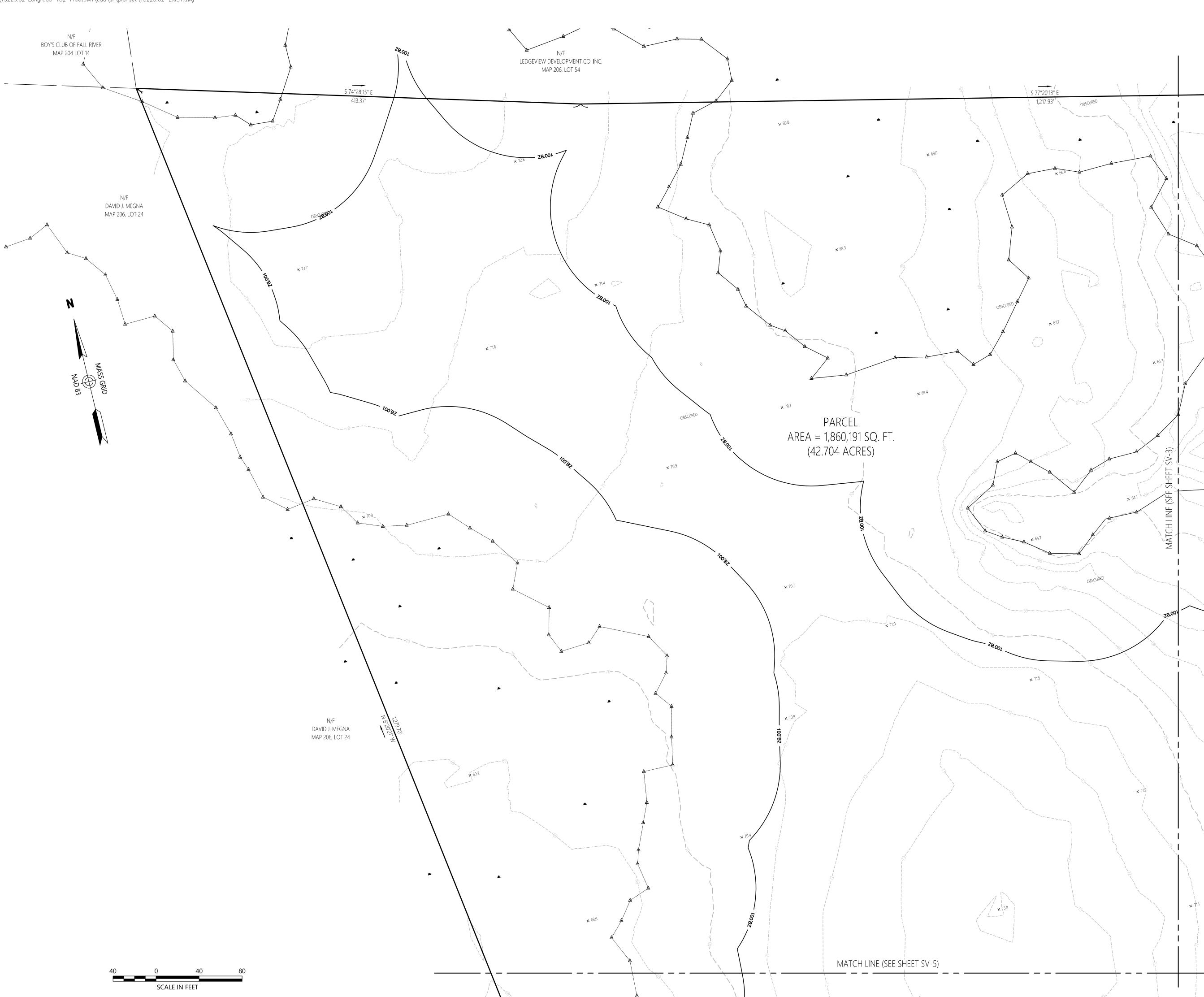
# Proposed Large-Scale **Ground-Mounted Solar** Photovoltaic Installation

0 Locust Street & 0 George D. Williams Lot Freetown, Massachusetts

1. ADDITIONAL TOPO SOUTHERLY PROP. 5-2021 November 9, 2020









### Legend

→ STREET SIGN

GUY POLE

GUY WIRE

MONITORING WELL

FLOOD LIGHT

₩ WELL ₩ MARSH

F.F.E.=45.27'
FINISHED FLOOR ELEVATION
CNO COULD NOT OPEN
NPV NO PIPES VISIBLE

NPV NO PIPES VISIBLE
DYL DOUBLE YELLOW LINE
DWL DASHED WHITE LINE
SYL SINGLE YELLOW LINE

LSA LANDSCAPED AREA
EDGE OF PAVEMENT
CC CONCRETE CURB
VGC VERTICAL GRANITE CURB
SGE SLOPED GRANITE EDGE
BB BITUMINOUS BERM
BITUMINOUS CURB

GUARD RAIL

CHAIN LINK FENCE

DRAINAGE LINE

DRAINAGE LINE

OVERHEAD WIRE

UNDERGROUND ELECTRIC

T TELEPHONE LINE

GAS LINE

WATER LINE

STONE WALL

TREE LINE

100'BZ 100-FT BUFFER ZONE

100-FT RIVER FRONT AREA

100-FT BOFFER ZONE

100-FT RIVER FRONT AREA

200-FT RIVER FRONT AREA

200-FT RIVER FRONT AREA

LIMIT MEAN ANNUAL HIGH WATER

LIMIT OF BANK

VEGETATED WETLAND BOUNDARY

# Proposed Large-Scale Ground-Mounted Solar Photovoltaic Installation

0 Locust Street & 0 George D. Williams Lot Freetown, Massachusetts

Revision Date Appvo.

1. ADDITIONAL TOPO SOUTHERLY PROP. 5-2021 RJB

Designed by Checked by

Issued for Date

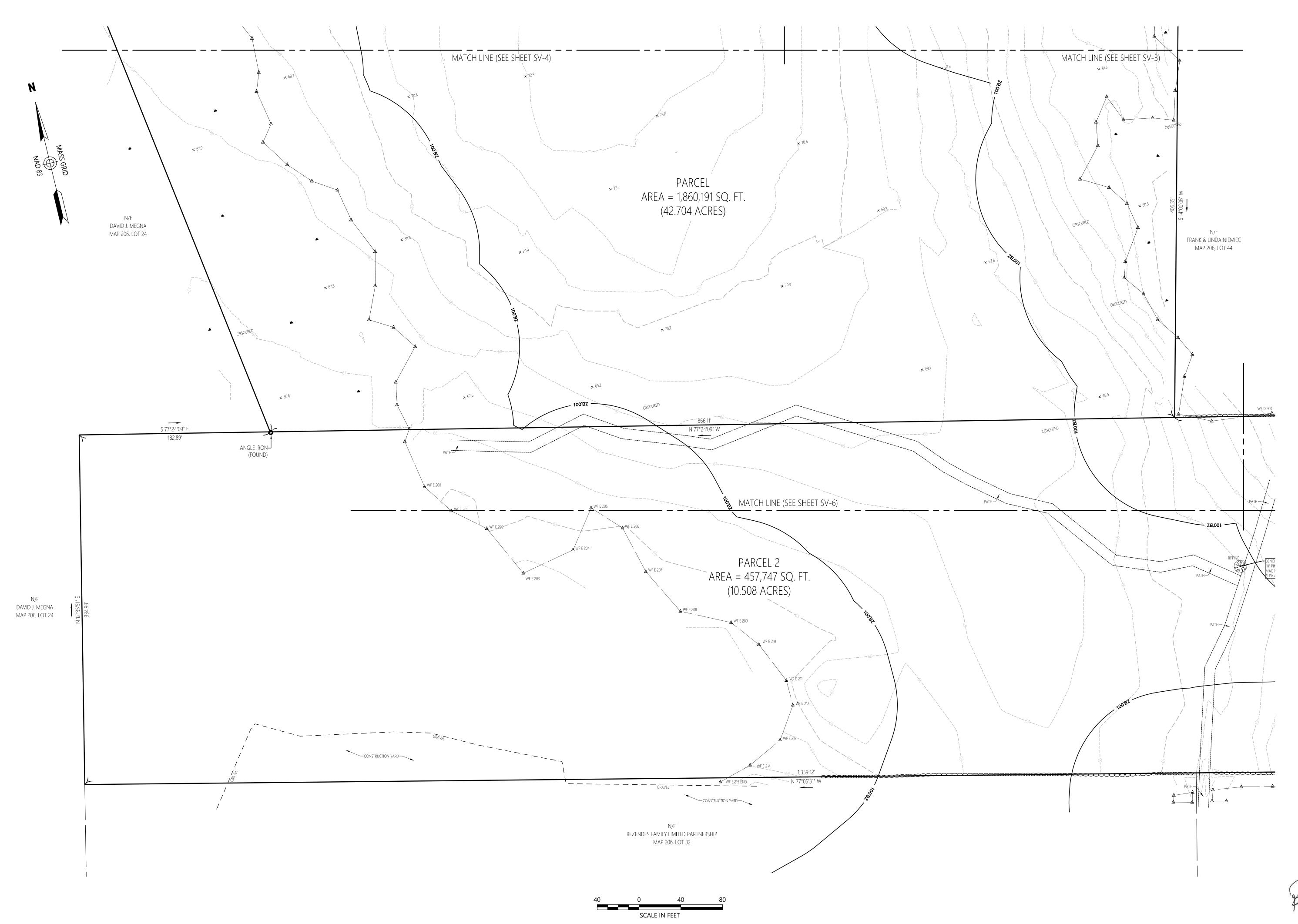
November 9, 2020





Sv-4

Project Number **14668.01** 





### Legend

DRAIN MANHOLE
CATCH BASIN
SEWER MANHOLE
ELECTRIC MANHOLE
TELEPHONE MANHOLE

◆ FIRE HYDRANT◆ GAS GATE◆ BOLLARD w/LIGHT

STREET SIGN

STREET POLE

UTILITY POLE

O— GUY POLE
OF GUY WIRE
OF MONITORING WELL

MONITORING WE
FLOOD LIGHT

WELL

₩ WELL

W MARSH

F.F.E.=45.27'
FINISHED FLOOR ELEVATION
CNO COULD NOT OPEN
NPV NO PIPES VISIBLE
DYL DOUBLE YELLOW LINE

DWL DASHED WHITE LINE
SYL SINGLE YELLOW LINE
LSA LANDSCAPED AREA
EDGE OF PAVEMENT
CONCRETE CURR

CONCRETE CURB

VGC
VERTICAL GRANITE CURB

SGE
SLOPED GRANITE EDGE
BITUMINOUS BERM
BITUMINOUS CURB

CHAIN LINK FENCE

DRAINAGE LINE

SEWER LINE

OVERHEAD WIRE

UNDERGROUND ELECTRIC

TELEPHONE LINE

GUARD RAIL

GAS LINE
WATER LINE
STONE WALL
TREE LINE
100'BZ
100'BZ
100'BZ
100'BZ
100'BZ

100-FT RIVER FRONT AREA
200-FT RIVER FRONT AREA
200-FT RIVER FRONT AREA
LIMIT MEAN ANNUAL HIGH WATER
BF1-100
WF1-100
WF1-100
UF1-100
UF1-100

# Proposed Large-Scale Ground-Mounted Solar Photovoltaic Installation

0 Locust Street & 0 George D. Williams Lot Freetown, Massachusetts

Revision Date Appvd.

1. ADDITIONAL TOPO SOUTHERLY PROP. 5-2021 RJB

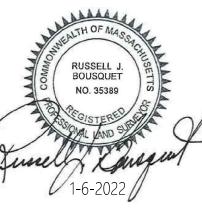
Designed by Checked by

Issued for Date

November 9, 2020

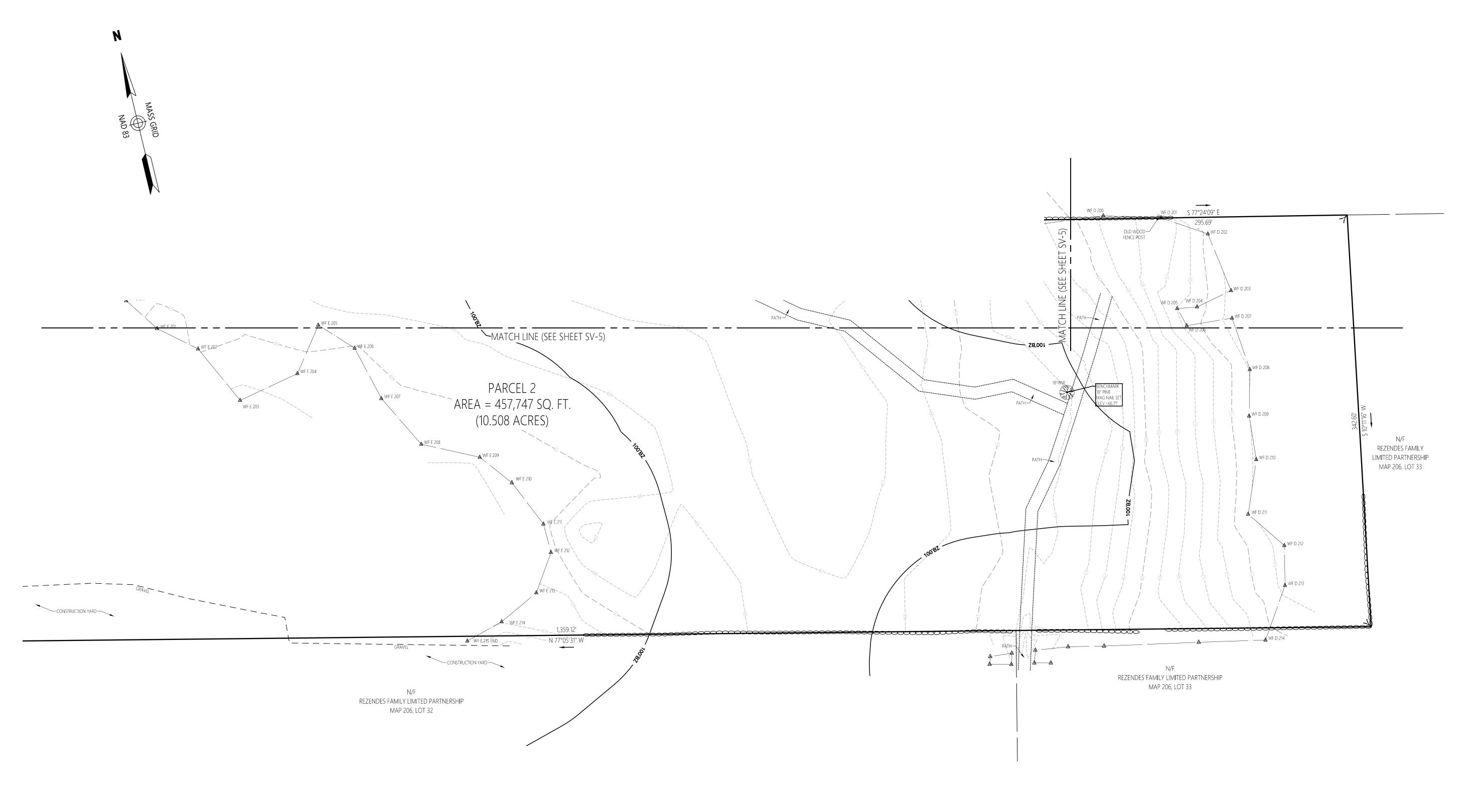
November 3, 20

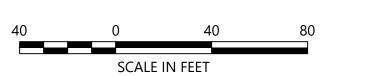




ject Number

Project Number 14668.01







## Legend

DRAIN MANHOLE
CATCH BASIN
SEWER MANHOLE
ELECTRIC MANHOLE
TELEPHONE MANHOLE

WATER GATEFIRE HYDRANTGAS GATE

BOLLARD W/LIGHT

STREET SIGN

MONITORING WELL
FLOOD LIGHT

WELL

<u>₩</u> MARSH **f.F.E.=45.27'** 

F.F.E.=45.27'
FINISHED FLOOR ELEVATION
CNO COULD NOT OPEN
NPV NO PIPES VISIBLE
DYL DOUBLE FYELLOW LINE

DYL DOUBLE YELLOW LINE
DWL DASHED WHITE LINE
SYL SINGLE YELLOW LINE
LSA LANDSCAPED AREA

EOP EDGE OF PAVEMENT

CONCRETE CURB

VGC VERTICAL GRANITE CURB

SGE SLOPED GRANITE EDGE

BB BITUMINOUS BERM
BITUMINOUS CURB
GUARD RAIL
CHAIN LINK FENCE
DRAINAGE LINE

SEWER LINE

OHW

F

UNDERGROUND ELECTRIC

T

G

G

SEWER LINE

OVERHEAD WIRE

UNDERGROUND ELECTRIC

TELEPHONE LINE

GAS LINE

STONE WALL
TREE LINE
100'BZ 100-FT BUFFER ZONE
100'RA 100-FT RIVER FRONT AREA

200-FT RIVER FRONT AREA

WF1-100

200-FT RIVER FRONT AREA

LIMIT MEAN ANNUAL HIGH WATER

LIMIT OF BANK

VEGETATED WETLAND BOUNDARY

# Proposed Large-Scale Ground-Mounted Solar Photovoltaic Installation

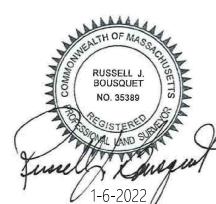
0 Locust Street & 0 George D. Williams Lot Freetown, Massachusetts

No. Revision Date Appvd

Issue
Desig

November 9, 2020





**Sheet** of 6

oject Number